TSSG/RED/ATB-025-70
22 January 1970

MEMORANDUM FOR THE RECORD

SUBJECT: Possible Use of PFR-3 Equipment for Image Manipulation Experiments

1. On 15 January 1970, [redacted] NPIC/TSSG/RED/ATB, and [redacted] 0/ORD/DD/S&T, met with [redacted] and [redacted] Analysis Division/ORD/DD/S&T, to discuss the possibility of using the Programmable Film Reader/Recorder, Number 3 (PFR-3) for image manipulation experiments. [redacted] is Chief of the Intelligen Processing Research and Development (IPRD) facility, Analysis Division, where the PFR-3 is located. [redacted] is the principal investigator of this unit. 25X1

2. At present, [redacted] and [redacted] are using aerial scenes digitized on the Mann Microdensitometer at NPIC. These 7-track tapes are then converted to 9-track mode on the ORD 360/50 computer before any processing of data. The current output, which is totally impracticable, is a computer printout (128 x 128) in the form of digits 0 to 9. These digits must be "contoured" by hand to obtain a recognizable pattern. Playing back the processed tape on the PFR-3 console is where the greatest benefit would result. The PFR-3 has a rectangular CRT output which currently has only eight gray levels. However, [redacted] indicated that this may be expanded to 64 gray levels at a minimum cost [redacted] to Analysis Division. This equipment would serve nicely as an "interim" replacement until NPIC obtains the IDT computer display from [redacted] later this year. 25X1

3. The PFR-3 also has the capability of scanning film and digitizing it on 7-track tape. However, the smallest scanning aperture is 25μ, compared to the 2μ scanning aperture which has been used on the Mann Microdensitometer. Scanning apertures of 5μ and 10μ have also been used on the Mann.

4. [redacted] is presently concluding some work for other Agency components. He indicated a willingness to provide assistance in any image manipulation experiments. 25X1

[redacted] 25X1
TSSG/RED/ATB

Dist:
Orig. - Route & File
2 - TSSG/RED/ATB
NPIC/TSSG/RED/ATB, [redacted] 22 Jan 70) 25X1